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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

ZHANG et al.

Serial No.: 09/465,978

Group Art Unit: 1632

Filing Date: December 16, 1999

Examiner: R. Shukla

Title: METHODS AND COMPOSITIONS FOR SCREENING FOR ANGIOGENESIS
MODULATING COMPOUNDS

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97**

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

The information listed below may be material to the examination of the above-identified application. Copies of the information and completed PTO-1449 forms are submitted herewith. The Examiner is respectfully requested to make this information of official record in the application. The information includes:

United States Patent No. 5,650,135 issued July 22, 1997 to Contag et al.;
United States Patent No. 6,020,121 issued February 1, 2000 to Bao et al.;
United States Patent No. 6,217,847 issued April 17, 2000 to Contag et al.;
International Publication No. WO 94/11499 published May 26, 1994;
International Publication No. WO 96/40979 A1 published December 19, 1996;
International Publication No. WO 97/00957 published January 9, 1997;
International Publication No. WO 97/11690 A2, A3 published April 3, 1997;
International Publication No. WO 97/18841 published May 29, 1997;
International Publication No. WO 97/40381 A1 published October 30, 1997;
International Publication No. WO 98/28971 published July 9, 1998;

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International Publication No. WO 98/30715 published July 16, 1998;
International Publication No. WO 98/55638 published December 10, 1998;
International Publication No. WO 00/08726 published February 17, 2000;
International Publication No. WO 00/36106 published June 22, 2000;
International Publication No. WO 00/54581 A2,A3 published September 21, 2000;
International Publication No. WO 01/18195 A2 published March 15, 2001;
International Publication No. WO 01/18225 A1 published March 15, 2001;
International Publication No. WO 01/37195 A2 published May 25, 2001;

Aiello et al., "Suppression of Retinal Neovascularization *In Vivo* by Inhibition of Vascular Endothelial Growth Factor (VEGF) Using Soluble VEGF-Receptor Chimeric Proteins," *Proc. Natl. Acad. Sci. U.S.A.* 92:10457-10461 (1995);

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Jain, R.K., "Endothelial Cell Death, Angiogenesis, and Microvascular Function After Casteration in an Androgen-Dependent Tumor: Role of Vascular Endothelial Growth Factor," *Proc. Natl. Acad. Sci. U.S.A.* 95:10820-10825 (1998);

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Waltenberger, J., "Different Signal Transduction Properties of KDR and Flt1, Two Receptors for Vascular Endothelial Growth Factor," *Journal of Biological Chemistry* 269:26988-26995 (1995);

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Yuan et al., "Time-Dependent Vascular Regression and Permeability Changes in Established Human Tumor Xenografts Induced by an Anti-Vascular Endothelial Growth Factor/Vascular Permeability Factor Antibody," *Proc. Natl. Acad. Sci. U.S.A.* 93:14765-14770 (1996).

This Information Disclosure Statement under 37 CFR § 1.97 is not to be construed as a representation that: (i) a complete search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the above information constitutes prior art to the subject invention.

Respectfully submitted,

Date: 19 Dec 2001

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In the Application of ZHANG et al.

Serial No.: 09/465,978

Art Unit: 1632

Filed: December 16, 1999

Examiner: R. Shukla

Title: METHODS AND COMPOSITIONS FOR SCREENING FOR ANGIOGENESIS MODULATING COMPOUNDS

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
	AA-1	5,650,135	July 22, 1997	Contag et al.			
	AB-1	6,020,121	February 1, 2001	Bao et al.			
	AC-1	6,217,847	April 17, 2000	Contag et al.			

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Translation	
							YES	NO
	AD-1	WO 94/11499	May 26, 1994	PCT				
	AE-1	WO 96/40979 A1	December 19, 1996	PCT				
	AF-1	WO 97/00957	January 9, 1997	PCT				
	AG-1	WO 97/11690 A2, A3	April 3, 1997	PCT				
	AH-1	WO 97/18841	May 29, 1997	PCT				
	AI-1	WO 97/40381 A1	October 30, 1997	PCT				
	AJ-1	WO 98/28971	July 9, 1998	PCT				
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	AL-1	WO 98/55638	December 10, 1998	PCT				
	AM-1	WO 00/08726	February 17, 2000	PCT				
	AN-1	WO 00/36106	June 22, 2000	PCT				
	AO-1	WO 00/54581 A2,A3	September 21, 2000	PCT				
	AP-1	WO 01/18195 A2	March 15, 2001	PCT				
	AQ-1	WO 01/18225 A1	March 15, 2001	PCT				
	AR-1	WO 01/37195 A2	May 25, 2001	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exam. Init.	Ref. Desig.	Description
	AS-1	Aiello et al., "Suppression of Retinal Neovascularization <i>in Vivo</i> by Inhibition of Vascular Endothelial Growth Factor (VEGF) Using Soluble VEGF-Receptor Chimeric Proteins," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>92</u> :10457-10461 (1995)
	AT-1	Asahara et al., "Bone Marrow Origin of Endothelial Progenitor Cells Responsible for Postnatal Vasculogenesis in Physiological and Pathological Neovascularization," <i>Circ. Res.</i> <u>85</u> :221-228 (1999)
	AU-1	Bais et al., "G-Protein-Coupled Receptor of Kaposi's Sarcoma-Associated Herpes Virus is a Viral Oncogene and Angiogenesis Activator," <i>Nature</i> <u>391</u> :86-89 (1998)

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	AV-1	Benjamin et al., "Conditional Switching of Vascular Endothelial Growth Factor (VEGF) Expression in Tumors: Induction of Endothelial Cell Shedding and Regression of Hemangioblastoma-Like Vessels by VEGF Withdrawal," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>94</u> :8761-8766 (1997)
	AW-1	Berse, B., "Vascular Permeability Factor (Vascular Endothelial Growth Factor) Gene is Expressed Differentially in Normal Tissues, Macrophages, and Tumors," <i>Molecular Biology of the Cell</i> <u>3</u> :211-220 (1992)
	AX-1	Contag et al., "Visualizing Gene Expression Living Mammals Using a Bioluminescent Reporter," <i>Photochemistry and Photobiology</i> <u>66</u> (4):523-531 (1997)
	AY-1	Disalvo et al., "Purification and Characterization of Naturally Occurring Vascular Endothelial Growth Factor-Placenta Growth Factor Heterodimer," <i>The Journal of Biological Chemistry</i> <u>270</u> (13):7717-7723 (1995)
	AZ-1	Dumont, et al., "Dominant-Negative and Targeted Null Mutations in the Endothelial Receptor Tyrosine Kinase, <i>Tek</i> , Reveal a Critical Role in Vasculogenesis of the Embryo," <i>Genes & Development</i> <u>8</u> :1897-1909 (1994)
	BA-1	Dvorak et al., "Distribution of Vascular Permeability Factor (Vascular Endothelial Growth Factor) in Tumors: Concentration in Tumor Blood Vessels," <i>J. Exp. Med.</i> <u>174</u> :1275-1278 (1991)
	BB-1	Ferrara et al., "The Biology of Vascular Endothelial Growth Factor," <i>Endocr. Rev.</i> <u>18</u> (1):4-25 (1997)
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	BE-1	Forsythe et al., "Activation of Vascular Endothelial Growth Factor Gene Transcription by Hypoxia-Inducible Factor 1," <i>Molecular and Cellular Biology</i> <u>16</u> (9):4604-4613 (1996)
	BF-1	Fukumura et al., "Tumor Induction of VEGF Promoter Activity in Stromal Cells," <i>Cell</i> <u>94</u> :715-725 (1998)
	BG-1	Hanahan, D., "Signaling Vascular Morphogenesis and Maintenance," <i>Science</i> <u>277</u> :48-50 (1997)
	BH-1	Ikeda et al., "Hypoxia-Induced Transcriptional Activation and Increased mRNA Stability of Vascular Endothelial Growth Factor in C6 Glioma Cells," <i>The Journal of Biological Chemistry</i> <u>270</u> (34):19761-19765 (1995)
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	BJ-1	Jeltsch et al., "Hyperplasia of Lymphatic Vessels in VEGF-C Transgenic Mice," <i>Science</i> <u>276</u> :1423-1425 (1997)
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	BZ-1	Plate et al., "Up-Regulation of Vascular Endothelial Growth Factor and Its Cognate Receptors in a Rat Glioma Model of Tumor Angiogenesis," <i>Cancer Research</i> <u>53</u> :5822-5827 (1993)
	CA-1	Puri et al., "The Receptor Tyrosine Kinase TIE is Required for Integrity and Survival of Vascular Endothelial Cells," <i>EMBO Journal</i> <u>14</u> (23):5884-5891 (1995)
	CB-1	Rönicke et al., "Characterization of the Endothelium-Specific Murine Vascular Endothelial Growth Factor Receptor-2 (Flk-1) Promoter," <i>Circulation Research</i> <u>79</u> (2):277-285 (1996)

Examiner:

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In the Application of ZHANG et al.

Serial No.: 09/465,978

Art Unit: 1632

Filed: December 16, 1999

Examiner: R. Shukla

Title: METHODS AND COMPOSITIONS FOR SCREENING FOR ANGIOGENESIS MODULATING COMPOUNDS

Exam. Init.	Ref. Desig.	Description
	CC-1	Shalaby et al., "Failure of Blood-Island Formation and Vasculogenesis in Flk-1-Deficient Mice," <i>Nature</i> <u>376</u> :62-65 (1995)
	CD-1	Sheweiki et al., "Vascular Endothelial Growth Factor Induced by Hypoxia may Mediate Hypoxia-Initiated Angiogenesis," <i>Nature</i> <u>359</u> :843-845 (1992)
	CE-1	Sheweiki et al., "Induction of Vascular Endothelial Growth Factor Expression by Hypoxia and by Glucose Deficiency in Multicell Spheroids: Implications for Tumor Angiogenesis," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>92</u> :768-772 (1995)
	CF-1	Siemeister et al., "An Antagonistic Vascular Endothelial Growth Factor (VEGF) Variant Inhibits VEGF-Stimulated Receptor Autophosphorylation and Proliferation of Human Endothelial Cells," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>95</u> :4625-4629 (1998)
	CG-1	Soker et al., "Neuropilin-1 is Expressed by Endothelial and Tumor Cells as an Isoform-Specific Receptor for Vascular Endothelial Growth Factor," <i>Cell</i> <u>92</u> :735-745 (1998)
	CH-1	Soker et al., "Characterization of Novel Vascular Endothelial Growth Factor (VEGF) Receptors on Tumor Cells that Bind VEGF ₁₆₅ Via Its Exon 7-Encoded Domain," <i>Journal of Biological Chemistry</i> <u>271</u> :5761-5767 (1996)
	CI-1	Soker et al., "Inhibition of Vascular Endothelial Growth Factor (VEGF)-Induced Endothelial Cell Proliferation by a Peptide Corresponding to the Exon 7-Encoded Domain of VEGF ₁₆₅ ," <i>Journal of Biological Chemistry</i> <u>272</u> (50):31582-31588 (1997)
	CJ-1	Stratman, A., "Cell Type-Specific Expression of Angiopoietin-1 and Angiopoietin-2 Suggests a Role in Glioblastoma Angiogenesis," <i>American Journal of Pathology</i> <u>153</u> (5):1459-1466 (1998)

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	CK-1	Suri et al., "Requisite Role of Angiopoietin-1, a Ligand for the TIE2 Receptor, During Embryonic Angiogenesis," <i>Cell</i> <u>87</u> :1171-1180 (1996)
	CL-1	Takahashi et al., "Markedly Increased Amounts of Messenger RNAs for Vascular Endothelial Growth Factor and Placenta Growth Factor in Renal Cell Carcinoma Associated with Angiogenesis," <i>Cancer Res.</i> <u>54</u> :4233-4237 (1994)
	CM-1	Terman et al., "Identification of a New Endothelial Cell Growth Factor Receptor Tyrosine Kinase," <i>Oncogene Sept.</i> <u>6</u> (9):1677-1683 (1991)
	CN-1	Tischer et al., "The Human Gene for Vascular Endothelial Growth Factor," <i>Journal of Biological Chemistry</i> : <u>266</u> (18):11947-11954 (1991)
	CO-1	Waltenberger, J., "Different Signal Transduction Properties of KDR and Flt1, Two Receptors for Vascular Endothelial Growth Factor," <i>Journal of Biological Chemistry</i> <u>269</u> :26988-26995 (1995)
	CP-1	Yoshiji et al., "Vascular Endothelial Growth Factor is Essential for Initial but not Continued <i>in Vivo</i> Growth of Human Breast Carcinoma Cells," <i>Cancer Research</i> <u>57</u> :3924-3928 (1997)
	CQ-1	Yuan et al., "Time-Dependent Vascular Regression and Permeability Changes in Established Human Tumor Xenografts Induced by an Anti-Vascular Endothelial Growth Factor/Vascular Permeability Factor Antibody," <i>Proc. Natl. Acad. Sci. U.S.A.</i> <u>93</u> :14765-14770 (1996)

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